

WPS DESIGNATION CODES AND NOMENCLATURE

W/BPS	-	XXXX	-	X	-	X	
							Supplemental Base or Filler Metal Designation
							Material P Group or Equivalent, i.e., ASTM, AISI, SAE, etc.
							Welding Process and Gas Composition when applicable
							Welding / Brazing Procedure Specification, W or B

NOMENCLATURE

- For welding/brazing purposes, material groups are given a P Number when equivalent chemistry is available, and the WPS is developed for multiple code use. ASME materials are utilized whenever possible or when dictated by engineering requirements.
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|------|------|--------------------------------|
| 1000 | SMAW | Shielded Metal Arc Welding |
| 20X0 | GTAW | Gas Tungsten Arc Welding |
| 30X0 | GMAW | Gas Metal Arc Welding |
| 35X0 | FCAW | Gas Metal Arc – Flux Core Wire |
| 4000 | PAW | Plasma Arc Welding |
| 5000 | SAW | Submerged Arc Welding |
| 6000 | OFW | Oxyfuel Welding/Brazing |
| 7000 | TF | Thermal Fusion – Plastic |
| 8000 | CAW | Carbon Arc Welding |
| 9000 | STUD | Automatically Timed Arc |

	Gas Shielding:	
	XX01 = CO ₂ 100%	
	XX02 = Argon 98% / Oxygen 2%	
	XX03 = Argon 75% / CO ₂ 25%	
	XX04 = Argon 71% / He 25% / CO ₂ 4%	
	XX05 = Argon 79% / He 18% / CO ₂ 3%	
	XX06 = He 90% / Argon 7.5% / CO ₂ 2.5%	
	XX07 = He 100%	
	XX08 = Argon 90% / He 10%	
	XX09 = Argon 99% / 1% O ₂	
	XX00 = No Gas Shielding (SMAW/SAW/OFW/TFW/STUD/GMAW-SS)	
	XX10 = 100% Argon (GTAW/GMAW/PAW)	
	XX11 = Argon 95% / CO ₂ 5%	
- Combination materials and welding processes will be indicated by the “ / ” symbol.
- Supplemental designations:
 - a = F4X Group/Nickel and Nickel Base Filler Materials
 - b = F3X Group/Copper and Copper alloy Filler Materials
 - c = Cast Iron Materials
 - m = Automatic Machine Welding
 - r = Reinforcing Steel for Concrete Structures
 - t = Plastic pipe
 - 1/xx = Brazing Filler Materials